



TRE i SYSTEMS S.r.l.®

# DVR-10



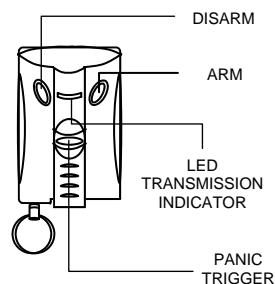
*User manual*

## INTRODUCTION:

TRE i SYSTEMS thanks you for having selected the new DVR-10 for your personal protection and that of your family and friends. This product offers the most modern microprocessor technology for the recording of Audio and Visual events with-in the protected area. It provide the end user with all the evidence necessary to identify the thieves involved in the event taking place. The DVR-10 has a wide range of applications such as HOMES, HOTELS, OFFICES, STORES, VILLA'S WAREHOUSES etc. This system is economic, effective and designed for easy installation. It may be easily considered as a Do-It-Yourself product (DIY). The DVR-10 may also be installed with the DVR-6 and as such the DVR-10 becomes the master DVR sensor. Each DVR-6 will function as a slave sensor to the DVR-10 and will record events that take place in its protected area and also trigger the DVR-10 so that it will in turn trigger the outdoor wireless siren.

## PRODUCT FEATURES:

- Intelligent microcomputer control performance.
- Wireless signal transmission with on-board receiver and transmitter at 433.92 Mhz. Range in open space 100 mt.
- Wide angle PIR detection with temperature compensation circuitry.
- Remote arming/disarming with coded Peg-3 Keychain transmitter.
- Special "Pegaso" transmission protocol for all sensors and sirens.
- Standard product has 3 minute recording time. With year, month, date, and hour.
- May be installed as a single standalone or may support up to 10 wireless sensors. **This include additional DVR-6 recording slave sensors** (see **INSTALLATION METHOD** page 5)
- Supplied with a **4 GB SD CARD**.
- IF SD card full, it will automatically override the oldest recordings.
- Direct USB connection from DVR-10 to normal computer.
- Unit supplied with back-up lithium battery with 3 hour of standby life.
- Optional, night vision unit made special for the DVR-10 so it may capture events also without light.
- LED indication to inform end user that a recording has taken place.



# **PACKAGE CONTENTS:**



One combined DVR & PIR wireless unit.

2 PEG-3 keychain transmitters. (Pegaso Protocol)



One USB cable for computer.



One 4 G SD card.



One power supply



2 x Screws



One swivel bracket

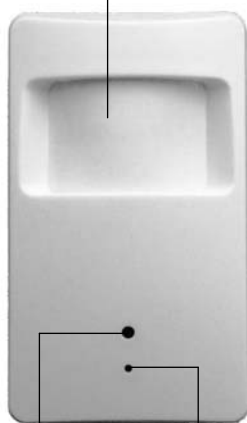


This User Manual

## **GETTING TO KNOW THE PRODUCT:**

### **FRONT VIEW**

Motion Detection Lens



Camera

Mic

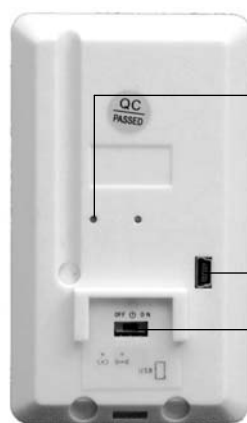
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### **SIDE VIEW**

SD Card Slot

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### **BACK VIEW**



Learn Button

Power Input /  
USB Output

Backup Battery  
Switch  
Right: ON  
Left: OFF

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#### TECHNICAL CHARACTERISTICS:

- Power input: 230Vac50/60Hz
- Backup battery: 3.7V Rechargeable Lithium (3 hours stand-by time)
- PIR detector: Wide angle: 100° 12 mt.
- Standby current: <40mA Working current: <45mA.
- Transmission frequency: 433.92 Mhz.
- Camera: 1/6.5" OV CMOS chip: 300,000 pixel.
- Video format: AVI
- Recording speed: 30 fps.
- Resolution: 640 x 480 x Min. Illumination: 0.1 lux.
- Focal length: 8mm.
- View Angle: 35° vertical 60° horizontal.
- Transmission Mode: USB 2.0 (Hs)
- Recording time: Standard 3 Minutes
- Memory card capacity: 4Gb
- Product dimensions: 103 x 60 x 32mm.

#### INSTALLATION INSTRUCTION AND FUNCTION

- **Fixing the DVR-10:** Fix the swivel bracket support onto the wall surface at a height that ranges from 1.8 to 2.5 meters from the floor. Fix the swivel bracket to the DVR-10 and adjust it so it will be able to detect movement and at the same time have a good angle position to record burglary events.
- **DVR-10 Start-up:** Connect the DVR-10 power supply to the unit and switch the DVR-10 to "ON" by pushing the small switch to the right, with a pointed object. (See Fig. 3 on page 4). A red LED will light and after 30 seconds will go "off". The DVR-10 is now in standby mode.
- **Date and Hour setting:** With the USB cable, connect the DVR to your PC. Search for "Devices" in "My Computer" then activate the function "GetSysTime" and the DVR-10 will automatically memorize the hour and date on your PC.

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- **Arming the DVR-10:** By pressing the button on the right of the Peg-3 Keychain transmitter. The DVR-10 will emit a beep as indication that it has received the arming command and after an 8 second delay time it will automatically arm.
  - **Disarm the DVR-10:** Press the button on the left of the Peg-3 keychain transmitter. You will hear 2 beeps and this will indicate that the DVR-10 has been Disarmed.
  - **Automatic recording:** When the on-board PIR sensor of the DVR-10 is violated, a 3 minute audio visual recording will take place of the area protected by the DVR-10. During this recording a Red LED will start flashing. The recording will be memorized with date and hour on the incorporated SD card. The DVR-10 will also transmit to the wireless siren an alarm trigger. When the DVR-10 is disarmed, a blue LED will light for 50 seconds to indicate that an event recording is present of the SD card.
  - **Emergency recording:** By pressing the panic button of the Peg-3 keychain transmitter the DVR-10 will start a 3 minute audio visual recording of the area being protected indicating the time and date. The DVR-10 will also transmit to the wireless siren an alarm trigger. When the DVR-10 is disarmed, a blue LED will light for 50 seconds to indicate that an event recording is present on the SD card.
  - **Recording Playback: (A)** To visualize the recording, with the DVR-10 disarmed, remove the SD card and insert it into your computer. After the recording has been seen, insert once again the SD card into the DVR-10.
  - **Recording Playback: (B)** You may also visualize the recording on the DVR-10 without removing the SD card. Follow this procedure; On the back side of the DVR-10 switch to "off" the battery backup switch. From the power supply connected to the A.C. outlet remove the USB cable and insert it directly into your computer to see the recorded data.
  - **Adding slave sensors and Peg-3:** On the back side of the DVR 10 press the learn button for 2 seconds and a beep will be heard. The DVR-10 will enter into learn mode for 15 seconds before returning to stand-by mode. Within these 15 seconds you must trigger the sensor to be learned. A sequence of 5 beeps will be emitted, by the DVR-10, as indication that the sensor or Peg-3 has been successfully learned. If you hear only 2 beeps, this indicates that the sensor's code has not been learned and the above sequence must be repeated. This same procedure must be followed to have the DVR-10 learn the code of a DVR-6 or the tamper code of a wireless siren.
  - **Deleting slave sensors:** To remove from the DVR-10 memory all "Pegaso" sensors, sirens and Peg-3 learned, you must press the learn button continuously for 15 seconds and release. The DVR-10 will emit 1 long beep. This is an indication that all slave sensors and Peg-3 previously learned have been deleted.

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## INSTALLATION METHODS

- The DVR-10 may be installed as a STANDALONE product and with the built-in PIR sensor, protect a single area. Example: a garage, a single room or office, a camper, etc. With this type of installation, if the on-board DVR-10 PIR sensor senses movement, it will trigger an alarm and at the same time will start a 3 minute recording of what is taking place in the protected area. Also incorporated in the DVR-10 is a Radio Frequency Receiver and Transmitter. The receiver is used for Arming and Disarming the unit and receive alarm trigger transmissions from other sensors installed. The transmitter is used to trigger an indoor or outdoor wireless siren. TLM-18VRP, TLM-21VRP and TLM-7 SOLARIS. These sirens may be found in the **Tre i Systems** catalogue. The DVR-10 is capable of giving the consumer full Audio and Visual protection of a single area.
- The DVR-10, being a sophisticated electronic product has also a 10 zone memory bank. This means that the on-board microprocessor may memories up to 10 slave sensors that have the "Pegaso" transmission protocol. This allows the end user to install the DVR-10 with a maximum of 10 sensors and keychain transmitters. Example of a typical installation for a 3 bedroom home: 1 DVR-10 in the living room. 1 **IR-120VRP** passive infrared sensor for each bedroom, 2 **PEG-3** keychain transmitters used for arm/disarm function, 1 **MG-1** magnetic contacts on entrance/exit door, 1 **SM-2** Smoke detector, 1 **MG-8** vibration detectors, 1 **TLM-21VRP** wireless outdoor siren. This will covers a full installation for a 3 bedroom home and protects you from **Burglary, Hold-up and Fire**.

## PRECAUTIONS:

- The DVR-10 is made for indoor use only. It is not water proof.
- **TRE i SYSTEMS**® is not responsible for inappropriate use of this product.
- Do not face the on-board Camera and PIR sensor in direct sun light or strong light sources..
- Do not install above heater or other devices that cause air to move rapidly.
- Do not install behind curtains or blinds.
- Do not install behind object that can effect the line of sight of the on-board camera.
- It is necessary to periodically clean the DVR-10 without causing water penetration.
- The camera lens must remain dust free. Clean with dry dust towel.
- The DVR-10 is a very sophisticated high precision electronic product and must be treated as such.

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: Tre i Systems



Do not litter. Separate and discard the packaging materials in the containers (depending on the laws in force).

Do not litter. Dispose of the device and the batteries based on local disposal laws at lifetime end.

**TRE i SYSTEMS**® is not responsible for inappropriate use or installation of the products manufactured and declines any responsibility for not observing the local laws in force.

**TRE i SYSTEMS**® reserves the right to make changes or improvements on the present product and this user manual without previous notice.

For any problems contact **TRE i SYSTEMS**® local sales office or service centre.



Latest revision: 11-08-2013

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